

Please insert the accompanying paper copy of the Sequence Listing, page numbers 1 to 4, at the end of the application.

REMARKS

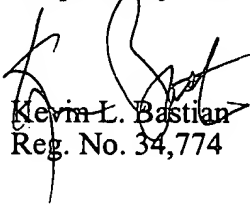
Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-3, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

Attached hereto is a marked-up version of the changes made to the Specification and Abstract by the current Amendment. The attached pages are captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,


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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Paragraph [45] beginning at line 23 of page 6 has been amended as follows:

[45] The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. For example, cytokine receptors are characterized by a cluster of cysteines and a WSXWS (SEQ ID NO:3) (W= tryptophan, S= serine, X=any amino acid) motif. Immunoglobulin-like domains are highly conserved. Mucin-like domains may be involved in cell adhesion and leucine-rich repeats participate in protein-protein interactions.

Paragraph (TABLE 2) beginning at line 5 of page 96 has been amended as follows:

TABLE 2 CBF9 DNA and Protein Sequences

CBF9 DNA sequence (SEQ ID NO:1)

Gene name: ESTs
Unigene number: Hs.157601
Probeset Accession #: W07459
Nucleic Acid Accession #: AC005383
Coding Sequence: 328-2751 (underlined sequences correspond to start and stop codons)

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|------|
| 1 | 11 | 21 | 31 | 41 | 51 | |
| | | | | | | |
| GACAGTGTTC | GCGGCTGCAC | CGCTCGGAGG | CTGGGTGACC | CGCGTAGAAG | TGAAGTACTT | 60 |
| TTTTATTTGC | AGACCTGGGC | CGATGCCGCT | TTAAAAAACG | CGAGGGGCTC | TATGCACCTC | 120 |
| CCTGGCGGTA | GTTCCCTCCG | CCTCAGCCGG | GTCGGGTCGT | GCCGCCCTCT | CCCAGGAGAG | 180 |
| ACAAACAGGT | GTCCCACGTG | GCAGCCCGCG | CCCGGGCGCC | CCTCCTGTGA | TCCCGTAGCG | 240 |
| CCCCCTGGCC | CGAGCCCGCG | CCGGGTCTGT | GAGTAGAGCC | GCCCAGGCAC | CGAGCGCTGG | 300 |
| TCGCCGCTCT | CCTTCCGTTA | TATCAACATG | CCCCCTTTCC | TGTGTCTGGA | GGCCGCTCTGT | 360 |
| GTTTTCTCTG | TTTCCAGAGT | GCCCCCATCT | CTCCCTCTCC | AGGAAGTCCA | TGTAAGCAAA | 420 |
| GAAACCATCG | GGAAGATTTC | AGCTGCCAGC | AAAATGATGT | GGTGCTCGGC | TGCAGTGGAC | 480 |
| ATCATGTTTC | TGTTAGATGG | GTCTAACAGC | GTCGGGAAAG | GGAGCTTTGA | AAGGTCCAAG | 540 |
| CACTTTGCCA | TCACAGTCTG | TGACGGTCTG | GACATCAGCC | CCGAGAGGGT | CAGAGTGGGA | 600 |
| GCATTCCAGT | TCAGTTCCAC | TCCTCATCTG | GAATTCCCCT | TGGATTCAAT | TTCAACCCAA | 660 |
| CAGGAAGTGA | AGGCAAGAAT | CAAGAGGATG | GTTTTCAAAG | GAGGGCGCAC | GGAGACGGAA | 720 |
| CTTGCTCTGA | AATACCTTCT | GCACAGAGGG | TTGCCTGGAG | GCAGAAATGC | TTCTGTGCC | 780 |
| CAGATCCTCA | TCATCGTCAC | TGATGGGAAG | TCCCAGGGGG | ATGTGGCACT | GCCATCCAAG | 840 |
| CAGCTGAAGG | AAAGGGGTGT | CACTGTGTTT | GCTGTGGGGG | TCAGGTTTCC | CAGGTGGGAG | 900 |
| GAGCTGCATG | CACTGGCCAG | CGAGCCTAGA | GGGCAGCACG | TGCTGTTGGC | TGAGCAGGTG | 960 |
| GAGGATGCCA | CCAACGGCCT | CTTCAGCACC | CTCAGCAGCT | CGGCCATCTG | CTCCAGCGCC | 1020 |
| ACGCCAGACT | GCAGGGTCGA | GGCTCACCCC | TGTGAGCACA | GGACGCTGGA | GATGGTCCGG | 1080 |
| GAGTTCGCTG | GCAATGCCCC | ATGCTGGAGA | GGATCGCGGC | GGACCCTTGC | GGTGCTGGCT | 1140 |
| GCACACTGTC | CCTTCTACAG | CTGGAAGAGA | GTGTTCTTAA | CCCACCCTGC | CACCTGCTAC | 1200 |
| AGGACCACCT | GCCCAGGCCC | CTGTGACTCG | CAGCCCTGCC | AGAATGGAGG | CACATGTGTT | 1260 |
| CCAGAAGGAC | TGGACGGCTA | CCAGTGCCCTC | TGCCCGCTGG | CCTTTGGAGG | GGAGGCTAAC | 1320 |
| TGTGCCCTGA | AGCTGAGCCT | GGAATGCAGG | GTCGACCTCC | TCTTCCTGCT | GGACAGCTCT | 1380 |
| GCGGGCACCA | CTCTGGACGG | CTTCCTGCGG | GCCAAAGTCT | TCGTGAAGCG | GTTTGTGCGG | 1440 |
| GCCGTGCTGA | GCGAGGACTC | TCGGGCCCCG | GTGGGTGTGG | CCACATACAG | CAGGGAGCTG | 1500 |
| CTGGTGGCGG | TGCCTGTGGG | GGAGTACCAG | GATGTGCCTG | ACCTGGTCTG | GAGCCTCGAT | 1560 |
| GGCATTCCCT | TCCGTGGTGG | CCCCACCCTG | ACGGGCAGTG | CCTTGCGGCA | GGCGGCAGAG | 1620 |
| CGTGGCTTCG | GGAGCGCCAC | CAGGACAGGC | CAGGACCGGC | CACGTAGAGT | GGTGGTTTTG | 1680 |
| CTCACTGAGT | CACACTCCGA | GGATGAGGTT | GCGGGCCCAG | CGCGTCACGC | AAGGGCGCGA | 1740 |
| GAGCTGCTCC | TGCTGGGTGT | AGGCAGTGAG | GCCGTGCGGG | CAGAGCTGGA | GGAGATCACA | 1800 |
| GGCAGCCCAA | AGCATGTGAT | GGTCTACTCG | GATCCTCAGG | ATCTGTTCAA | CCAAATCCCT | 1860 |
| GAGCTGCAGG | GGAAGCTGTG | CAGCCGGCAG | CGGCCAGGGT | GCCGGACACA | AGCCCTGGAC | 1920 |
| CTCGTCTTCA | GTGTGGACAC | CTCTGCCTCA | GTAGGGCCCG | AGAATTTTGC | TCAGATGCAG | 1980 |
| AGCTTTGTGA | GAAGCTGTGC | CCTCCAGTTT | GAGGTGAACC | CTGACGTGAC | ACAGGTCGGC | 2040 |
| CTGGTGGTGT | ATGGCAGCCA | GGTGCAGACT | GCCTTCGGGC | TGGACACCAA | ACCCACCCGG | 2100 |
| GCTGCGATGC | TGCGGGCCAT | TAGCCAGGCC | CCCTACCTAG | GTGGGGTGGG | CTCAGCCGGC | 2160 |
| ACCGCCCTGC | TGCACATCTA | TGACAAAGTG | ATGACCGTCC | AGAGGGGTGC | CCGGCCTGGT | 2220 |

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GTCCCAAG CTGTGGTGGT GCTCACAGGC GGGAGAGGCG CAGAGGATGC AGCCGTTCTT 2280
GCCAGAAGC TGAGGAACAA TGGCATCTCT GTCTTGGTCG TGGGCGTGGG GCCTGTCCTA 2340
AGTGAGGGTC TGCGGAGGCT TGCAGGTCCC CGGGATTCCC TGATCCACGT GGCAGCTTAC 2400
GCCGACCTGC GGTACCACCA GGACGTGCTC ATTGAGTGGC TGTGTGGAGA AGCCAAGCAG 2460
CCAGTCAACC TCTGCAAACC CAGCCCGTGC ATGAATGAGG GCAGCTGCGT CCTGCAGAAT 2520
GGGAGCTACC GCTGCAAGTG TCGGGATGGC TGGGAGGGCC CCCACTGCGA GAACCGTGAG 2580
TGGAGCTCTT GCTCTGTATG TGTGAGCCAG GGATGGATTG TTGAGACGCC CCTGAGGCAC 2640
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GGCACTGAAA TGGTGCCTAC CTTCTGGAAT GTCTGTGCCC CAGGTCCTTA GAATGTCTGC 2760
TTCCCGCCGT GGCCAGGACC ACTATTCTCA CTGAGGGAGG AGGATGTCCC AACTGCAGCC 2820
ATGCTGCTTA GAGACAAGAA AGCAGCTGAT GTCACCACA AACGATGTTG TTGAAAAGTT 2880
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CTGCCACCTT TCCCTTGAGG ATAAACAAGG GTTCTGAAG ACTTAAATTT AGCGGCCTGA 3000
CGTTCCTTTG CACACAATCA ATGCTCGCCA GAATGTTGTT GACACAGTAA TGCCACAGCA 3060
AGGCCTTTAC TAGAGCATCC TTTGGACGGC GAAGGCCACG GCCTTTCAAG ATGGAAAGCA 3120
GCAGCTTTTC CACTTCCCCA GAGACATTCT GGATGCATTT GCATTGAGTC TGAAAGGGGG 3180
CTTGAGGGAC GTTTGTGACT TCTTGGCGAC TGCCTTTTGT GTGTGGAAGA GACTTGGAAA 3240
GGTCTCAGAC TGAATGTGAC CAATTAACCA GCTTGTTTGA TGATGGGGGA GGGGCTGAGT 3300
TGTGCATGGG CCCAGGCTG GAGGGCCACG TAAATCGTT CTGAGTCGTG AGCAGTGTCC 3360
ACCTTGAAGG TCTTC

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CBF9 Protein sequence (SEQ ID NO:2)

Gene name: ESTs
Unigene number: Hs.157601

Protein Accession #: none found

Signal sequence: 1-17
Transmembrane domains: none found
VGW domains: 49-223; 341-518; 529-706
EGF domains: 298-333; 715-748
Cellular Localization: plasma membrane

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1      11      21      31      41      51
|      |      |      |      |      |
MPPFLLLEAV CVFLFSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN 60
SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR 120
MVFKGGRTET ELALKYLLHR GLPGGRNASV PQILIIIVTDG KSQGDVALPS KQLKERGVTV 180
FAVGVRFRPW EELHALASEP RGQHVLLAEQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH 240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPFYSWK RVFLTHPATC YRTTCGPGLD 300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL 360
RAKVFKRFPV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPDLVWSL DGIPFRGGPT 420
LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLTESHSEDE VAGPARHARA RELLLLGVGS 480
EAVRAELEEI TGSPKHMVYV SDPQDLFNQI PELQGLCSR QRPQCRTQAL DLVFMLD TSA 540
SVGPENFAQM QSFVRSCALQ FEVNPVDTQV GLVYGSQVQ TAFGLDTKPT RAAMLRAISQ 600
APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVL T GGRGAEDAAV PAQKLNRNGI 660
SVLVVGVGPV LSEGLRRLAG PRDSLIHVAA YADLRYHQDV LIEWLCGEAK QPVNLCKPSP 720
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RTPPSNYREG LGTEMVPTFW NVCAFGP

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